

0062415

SAF-B04-004
100 BC Burial Grounds –
Other Solid Quick Turn
FINAL DATA PACKAGE

E:MAIL RESULTS TO:

Dave Shea

NA
INITIAL/DATE

Dean Strom

NA
INITIAL/DATE

COMPLETE COPY OF DATA PACKAGE TO:

Dave Shea

X3-40

mjr 5-6-04
INITIAL/DATE

Dean Strom

X3-40

mjr 5-6-04
INITIAL/DATE

COMMENTS: (PLEASE INCLUDE THE FOLLOWING ON THE COVER SHEET)

SDG 20040521

SAF-B04-004

Rad only X Chem only Rad & Chem

X Complete Partial

Sample Location/Waste Site: 100-B/C 128-C-1 test pit

RECEIVED
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ANALYTICAL LABORATORY REPORT
ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT

for

Bechtel Hanford, Inc.
MSIN H9-02
Richland, WA 99352

Attention: J. Kessner MSIN: H9-02

Survey ID J01C64-65

Data Validator MK Hamilton

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Group#: 20040521
Report Date 28-apr-2004
bulk/rev.r6

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Fluor Hanford, Inc.
MSIN: S3-28
Richland, WA 99352 Phone 373-7403

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ANALYTICAL LABORATORY REPORT

ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT

Your samples have been analyzed for fiber content using polarized light microscopy and dispersion staining in accordance with Industrial Hygiene Laboratory Procedure LA-519-403, based on 40 CFR Part 763, Subpart E, App. E and EPA method EPA/600/R-93/116. The results are attached.

This method provides a visual estimate of the percentage of each fiber type present. It is a semiquantitative method intended to identify materials containing $>$ or $=$ 1% asbestos fibers.* Reported fiber percentages for samples and sample layers are based on the samples as received by the laboratory. The laboratory cannot verify that these values are representative of the original material sampled.

The Waste Sampling and Characterization Facility is accredited by the American Industrial Hygiene Association (AIHA) to analyze bulk samples for asbestos content. This accreditation does not constitute approval or endorsement of analytical results by AIHA.

If there are questions concerning this report, please contact the data validator listed on the cover page of this report.

* Because of the nonhomogeneous nature of soils, results will be reported using the following terms rather than percentages:

1. None - No asbestos fibers found.
2. Trace detectable - With extensive searching, a few fibers of the type indicated were found; concentration very low, well below 1%.
3. Obvious presence - Fibers easily found but overall concentration still low.
4. Significant presence - Fibers readily found; overall concentration may approach or exceed 1% level.

Polarized light microscopy (PLM) may not be the preferred method for identification of asbestos in floor tile. Most vinyl floor tiles marketed in the late sixties to mid-seventies contained asbestos milled so fine as to be below detection limits for PLM techniques. Tiles of that vintage, showing any detectable asbestos fibers should be considered to be asbestos-containing material. Non-detection of asbestos by PLM should not be considered conclusive proof that the tiles do not contain asbestos. Results for such samples will be reported as 'indeterminate'. Confirmatory analysis by TEM is strongly recommended.

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ANALYTICAL LABORATORY REPORT

Attention: J. Kessner MSIN: H9-02

Group #: 20040521

| Sample # | Client ID | Test Performed | Range | Result | Units | Analyst | Sampled | Received | Analyzed |
|------------|-----------|---|--|---------------------|----------|---------|----------|----------|----------|
| W04I001677 | J01C64 | The following are the results of this test- Bulk Asbestos Layer 1 | | Amosite Asbestos | OBVIOUS% | sdb | 03/25/04 | 03/29/04 | 03/31/04 |
| | | | | Cellulose | SIGNIF % | sdb | 03/25/04 | 03/29/04 | 03/31/04 |
| | | | | Chrysotile Asbestos | SIGNIF % | sdb | 03/25/04 | 03/29/04 | 03/31/04 |
| | | | | Mineral Wool | SIGNIF % | sdb | 03/25/04 | 03/29/04 | 03/31/04 |
| | | SAMPLE COMMENT--- | Non-homogenous grey dirt with rocks and pieces of black tar, | | | | | | |
| | | SAMPLE COMMENT--- | reportedly from 128-C-1 Test Pit. | | | | | | |
| W04I001678 | J01C65 | The following are the results of this test- Bulk Asbestos Layer 1 | | Cellulose | < 1 % | sdb | 03/25/04 | 03/29/04 | 03/31/04 |
| | | | | Mineral Wool | < 1 % | sdb | 03/25/04 | 03/29/04 | 03/31/04 |
| | | | | Chrysotile Asbestos | 10-25 % | sdb | 03/25/04 | 03/29/04 | 03/31/04 |
| | | | | Amosite Asbestos | 5-15 % | sdb | 03/25/04 | 03/29/04 | 03/31/04 |
| | | SAMPLE COMMENT--- | Non-homogenous fibrous grey granular material attached to | | | | | | |
| | | SAMPLE COMMENT--- | rusty black tar, reportedly from the 128-C-1 Test Pit. | | | | | | |

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ANALYTICAL COMMENT REPORT

Attention: J. Kessner MSIN: H9-02

Group #: 20040521

| Sample # | Client ID | Lab Area | Test | Comment |
|------------|-----------|----------|-----------------------|---|
| W04I001677 | J01C64 | VALGROUP | | Validated 4/28/04 by MK Hamilton, IH QA Coordinator. |
| | | LOGSAMP | | SAMPLES ACCEPTABLE FOR RECEIPT. REC'D BY K BEEBE 3/29/04 AND LOGGED BY MK GRANT 3/30/04. |
| | | | | MEDIA: BULK |
| W04I001678 | J01C65 | TESTDATA | Bulk Asbestos Layer 1 | Non-homogenous grey dirt with rocks and pieces of black tar, reportedly from 128-C-1 Test Pit. |
| | | TESTDATA | Bulk Asbestos Layer 1 | Non-homogenous fibrous grey granular material attached to rusty black tar, reportedly from the 128-C-1 Test Pit. |
| | | | | |

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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20040521

| Bechtel Hanford Inc. | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | | B04-004-022 | | Page 1 of 1 | |
|--|----------------------------------|--|-------------|---|--|------------------------------------|--|--|--|
| Collector D.Bowers/D.Shea | | Company Contact Dave Shea | | Telephone No. 373-6425 | | Project Coordinator KESSNER, JH | | Price Code 3E Data Turnaround | |
| Project Designation 100 BC Burial Grounds - Other Solid Quick Turn | | Sampling Location 128-C-1 test pit | | SAF No. B04-004 | | Air Quality 7 days | | | |
| Ice Chest No. | | Field Logbook No. EFL-1173 | | COA R128C12000 | | Method of Shipment Gov. Vehicle | | | |
| Shipped To Waste Sampling & Characterization | | Offsite Property No. | | Bill of Lading/Air Bill No. | | | | | |
| POSSIBLE SAMPLE HAZARDS/REMARKS suspect asbestos Special Handling and/or Storage | | Preservation | | None | | | | | |
| | | Type of Container | | G/P | | | | | |
| | | No. of Container(s) | | 1 | | | | | |
| | | Volume | | 60mL | | | | | |
| SAMPLE ANALYSIS | | | | Asbestos | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Sample No. | Matrix * | Sample Date | Sample Time | | | | | | |
| J01C64 W04J001677 | OTHER SOLID | 3/25/04 | 0951 | ✓ | | | | | |
| J01C65 W04J001678 | OTHER SOLID | 3/25/04 | 1016 | ✓ | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| CHAIN OF POSSESSION | | | | SPECIAL INSTRUCTIONS | | | | Matrix * | |
| Relinquished By/Removed From D Shea D Shea 3/25/04 1655 | | Sign/Print Names Received By/Stored In Frick 3B 3/25/04 1655 | | Samples are from a burn pit, optical properties may of changed. Relinquished SD Bolling 3/31/04 1515 Received NAA N4 Storage 3/31/04 Storage | | | | S=Soil SE=Sediment SO=Solid SJ=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue W1=Wipe L=Liquid V=Vegetation X=Other | |
| Relinquished By/Removed From Frick 3B 3/29/04 0606 | | Received By/Stored In D Shea D Shea 3/29/04 0606 | | | | | | | |
| Relinquished By/Removed From D Shea D Shea 3/29/04 1506 | | Received By/Stored In Z Bello P Beebe 3/29/04 | | | | | | | |
| Relinquished By/Removed From D Shea D Shea 3/29/04 1600 | | Received By/Stored In MK Grant MK Grant 3-29-04/1600 | | | | | | | |
| Relinquished By/Removed From logged & stored | | Received By/Stored In MK Grant MK Grant 3-30-04/1600 | | | | | | | |
| Relinquished By/Removed From Storage | | Received By/Stored In SD Bolling 3/31/04 | | | | | | | |
| LABORATORY SECTION | Received By MK Grant MK Grant | Title 1H Sample Custodian | | 29 MB 3-29-04 3-30-04 1600 | | | | Date/Time | |
| FINAL SAMPLE DISPOSITION | Disposal Method | | | Disposed By | | | | Date/Time | |